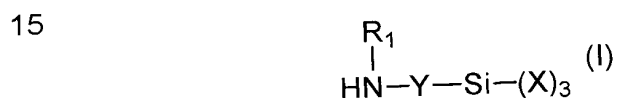


WHAT IS CLAIMED IS:

1. A moisture-curable, alkoxy-silane-functional polyether urethane comprising

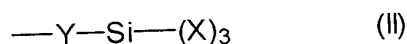
- 5 a) 20 to 90% by weight, based on the weight of a) and b), of a polyether urethane containing two or more reactive silane groups and one or more polyether segments, wherein the polyether segments have a number average molecular weight of at least 3000 and a degree of unsaturation of less than 0.04 milliequivalents/g, provided that the sum of the number average molecular weights of
- 10 all of the polyether segments per molecule averages 6000 to 20,000, and wherein the reactive silane groups are incorporated as the reaction product of an isocyanate group with a compound corresponding to the formula



20 wherein

- X represents identical or different organic groups which are inert to isocyanate groups below 100°C, provided that at least two of these groups are alkoxy or acyloxy groups,
- 25 Y represents a linear or branched alkylene group containing 1 to 8 carbon atoms and
- R₁ represents an organic group which is inert to isocyanate groups at a temperature of 100°C or less, provided that R₁ is not a succinate group, or R₁ represents a group corresponding to formula II

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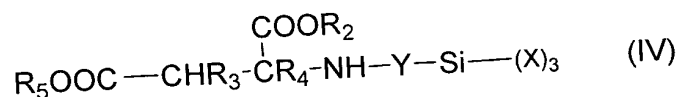


and

b) 10 to 80% by weight, based on the weight of a) and b), of a polyether urethane containing one reactive silane group and one or more polyether segments having a number average molecular weight of 1000 to 15,000.

2. The polyether urethane of Claim 1 wherein
 X represents identical or different alkoxy groups having 1 to 4 carbon atoms and
 Y represents a linear radical containing 2 to 4 carbon atoms or a branched radical containing 5 to 6 carbon atoms and
 R₁ represents an alkyl, cycloalkyl or aromatic group having 1 to 12 carbon atoms.

3. The polyether urethane of Claim 1 wherein the reactive silane groups of component b) are incorporated as the reaction product of an isocyanate group and a compound corresponding to the formula

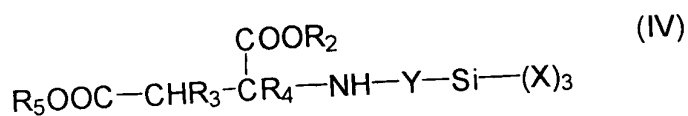


wherein

R₂ and R₅ are identical or different and represent organic groups which are inert to isocyanate groups at a temperature of 100°C or less and

R₃ and R₄ are identical or different and represent hydrogen or organic groups which are inert towards isocyanate groups at a temperature of 100°C or less.

4. The polyether urethane of Claim 2 wherein the reactive silane groups of component b) are incorporated as the reaction product of an isocyanate group and a compound corresponding to the formula



wherein

R₂ and R₅ are identical or different and represent alkyl groups having
1 to 4 carbon atoms and

10 R₃ and R₄ represent hydrogen.

5. The polyether urethane of Claim 1 wherein the reactive
silane groups of component b) are incorporated as the reaction product of
an isocyanate group and a compound corresponding to formula I.

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6. The polyether urethane of Claim 2 wherein the reactive
silane groups of component b) are incorporated as the reaction product of
an isocyanate group and a compound corresponding to formula I.

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7. The polyether urethane of Claim 1 wherein polyether
urethane a) is present in an amount of 30 to 80% by weight and polyether
urethane b) is present in an amount of 20 to 70% by weight, wherein the
percentages are based on the weight of a) and b).

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8. The polyether urethane of Claim 2 wherein polyether
urethane a) is present in an amount of 30 to 80% by weight and polyether
urethane b) is present in an amount of 20 to 70% by weight, wherein the
percentages are based on the weight of a) and b).

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9. The polyether urethane of Claim 3 wherein polyether
urethane a) is present in an amount of 30 to 80% by weight and polyether
urethane b) is present in an amount of 20 to 70% by weight, wherein the
percentages are based on the weight of a) and b).

10. The polyether urethane of Claim 4 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).

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11. The polyether urethane of Claim 5 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).

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12. The polyether urethane of Claim 6 wherein polyether urethane a) is present in an amount of 30 to 80% by weight and polyether urethane b) is present in an amount of 20 to 70% by weight, wherein the percentages are based on the weight of a) and b).

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13. The polyether urethane of Claim 1 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

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14. The polyether urethane of Claim 2 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

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15. The polyether urethane of Claim 3 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

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16. The polyether urethane of Claim 4 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
- 5 17. The polyether urethane of Claim 5 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
- 10 18. The polyether urethane of Claim 6 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
- 15 19. The polyether urethane of Claim 7 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
- 20 20. The polyether urethane of Claim 8 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
- 25 21. The polyether urethane of Claim 9 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.

22. The polyether urethane of Claim 10 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
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23. The polyether urethane of Claim 11 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
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24. The polyether urethane of Claim 12 wherein the polyether segments of polyether urethane a) have a number average molecular weight of at least 6000 and the polyether segments of component b) have a number average molecular weight of 3000 to 12,000.
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25. A sealant, adhesive or coating composition containing the moisture-curable, alkoxysilane-functional polyether urethane of Claim 1.